

Chapter Five: Airport Plans

1.0 General

The Airport Layout Plan (ALP) is a graphic presentation to scale of both the current airport facilities and the proposed airport development. The future development is the result of input from the Planning Advisory Committee (PAC) airport master plan update meeting process and the analysis completed in previous chapters.

The ALP set consists of drawings that illustrate detail required by the Federal Aviation Administration (FAA) in Advisory Circular (AC) 150/5070-6A, *Airport Master Plans*ⁱ and AC 150/5300-13, *Airport Design*.ⁱⁱ

The ALP set includes the following drawings:

• Cover/Title Sheet	1 of 11
• Existing Airport Layout Plan (Existing ALP)	2 of 11
• Ultimate Airport Layout Plan (Ultimate ALP)	3 of 11
• Ultimate Airport Layout Plan Data Sheet	4 of 11
• Topographic Plan	5 of 11
• Terminal Area Plan	6 of 11
• Runway 17-35 Plan and Profile	7 of 11
• Runway 12-30 Plan and Profile	8 of 11
• Federal Aviation Regulation (FAR) Part 77 Airspace Surfaces	9 of 11
• Land Use Plan/Area Zoning/Future Noise Contours	10 of 11
• Airport Sign Plan	11 of 11

The airport plans provide the physical details of the 20-year development plan. The primary drawing is the Ultimate ALP, which is the overall development plan for the airport showing both the existing and ultimate facilities. The Federal Aviation Administration (FAA), the New Hampshire Department of Transportation – Division of Aeronautics (NHDOT), the City of Concord, Concord Aviation Services, and other airport tenants and users refer to the ALP set as a guide for future airport development.

The ALP must be approved by the FAA in order for Concord Municipal Airport to be eligible for Federal funding for airport development projects. Likewise, the plan must be approved by the NHDOT for the airport to receive State funding of eligible airport development projects.

Standard 22-inch by 34-inch sheets of the ALP drawings are available through the City of Concord, Concord Aviation Services, FAA and NHDOT. Reduced 11 by 17 inch copies of the plans are included at the end of this chapter (**Drawing Numbers 1 through 11**). A brief description of each drawing is provided in the following sections.

2.0 Cover/Title Sheet

Sheet one of eleven, the Cover/Title Sheet, lists the subsequent drawings within the ALP set. It also provides the reader with a map depicting the general location of the airport within the State of New Hampshire and the City of Concord.

3.0 Existing and Ultimate Airport Layout Plans (ALPs)

The Existing ALP, sheet two of eleven, is provided as both a reference document to identify existing facilities (including runways, taxiways, buildings and other structures) and a presentation document to identify a beginning point to this study.

The Ultimate ALP, sheet three of eleven, is a graphic depicting all of the existing facilities as well as the detail of the ultimate improvement for the 20-year development plan for Concord Municipal Airport, as identified in *Chapter 3 – Facility Requirements and Alternative Development*, and refined by the PAC meeting process. This allows the viewer the opportunity to visually identify all future development relative to the existing facilities.

4.0 Ultimate Airport Layout Plan (ALP) Data Sheet

The ALP Data Sheet, sheet four of eleven, provides a broad-spectrum of information about Concord Municipal Airport. Data included (keyed to the Ultimate ALP) consists of general airport data, approach slope data, property ownership data, and other key information regarding the airport.

5.0 Topographic Plan

To simplify the Ultimate ALP drawing and give a “cleaner” look to that drawing, no topographic contours were placed on the Existing and Ultimate ALPs. This Topographic Plan, sheet five of eleven, provides the topographic information obtained from the City’s GIS files. The only details included with the topographic data are the airport boundary and the outlines of the runways, for reference purposes.

6.0 Terminal Area Plan

This plan, sheet six of eleven, depicts a detailed development plan for the operations area of the airport in the area of the terminal building and existing hangars. The drawing is a “blow-up” of the area from the Ultimate ALP.

7.0 Runway Plan and Profiles

The runway plans and profiles, sheets seven and eight of eleven, illustrate the runways (Runway 17-35 and Runway 12-30) and the approach areas immediately beyond the ends of the runways at Concord Municipal Airport. The runways are shown in profile with an exaggerated vertical scale to clearly depict any obstacles located within the existing and ultimate approaches to the runways and to depict runway elevation differences.

8.0 Federal Aviation Administration (FAR) Part 77 Airspace Surfaces

The FAA describes imaginary airspace surfaces on and around an airport in *Federal Aviation Regulations, Part 77, Obstructions Affecting Navigable Airspace*.ⁱⁱⁱ These surfaces, when kept clear, protect aircraft from manmade and natural obstructions in the airspace around the airport. The FAR Part 77 Airspace Surfaces, sheet nine of eleven, depicts those imaginary airspace surfaces.

FAR Part 77 surfaces are utilized in zoning and land use planning adjacent to the airport to protect the navigable airspace from encroachment by hazards, which would potentially affect the safety of airport operations. The FAR Part 77 Airspace Surfaces plan depicts the physical features of the area around the airport, the Part 77 surfaces, and obstructions to the outer surfaces (close in obstructions are shown on the Plan and Profile drawings, sheets seven and eight).

9.0 Land Use Plan/Noise Contours

The Land Use Plan (Zoning) overlain with the Noise Contour Plan, sheet ten of eleven, depicts both the existing and ultimate on and off-airport land use as well as the ultimate 65 DNL noise contour.

10.0 Airport Sign Plan

This plan depicts an airside sign plan for the airport for all runways, taxiways and aprons.

Endnotes

- i U.S. Department of Transportation, Federal Aviation Administration, *Airport Master Plans, AC No. 150/5070-6A*, U.S. Government Printing Office, Washington, DC, June 1985.
- ii U.S. Department of Transportation, Federal Aviation Administration, *Airport Design, AC No. 150/5300-13, Change 8*, U.S. Government Printing Office, Washington, DC, September 30, 2004, Appendix 7. pp. 130 -138.
- iii U.S. Department of Transportation, Federal Aviation Administration, *Federal Aviation Regulations, Part 77, Objects Affecting Navigable Airspace*, U.S. Government Printing Office, Washington, DC, March, 1993.